

**Sequence Listing**

SEQ ID NO. 1  
5 GLP-1 (1-37)  
  
His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-  
10 Gly  
  
SEQ ID NO. 2  
GLP-1 (1-36)  
  
15 His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg  
  
SEQ ID NO. 3  
20 GLP-1 (1-36)NH<sub>2</sub>  
  
His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-  
Xaa  
25 Xaa is NH<sub>2</sub>  
  
SEQ ID NO. 4  
30 GLP-1 (7-37)  
  
His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly  
  
35 SEQ ID NO. 5  
GLP-1 (7-36)  
  
His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
40 Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg  
  
SEQ ID NO. 6  
GLP-1 (7-36)amide  
45 His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Xaa  
  
Xaa is NH<sub>2</sub>  
50  
  
SEQ ID NO. 7  
Exendin-3 (Heloderma horridum horridum) Genbank Accession No. P20394  
  
55 hsdgtftsd1 skqmeeeavr lfiewlknngg pssgappps

## SEQ ID NO. 8

Exendin-4 (Heloderma suspectum) Genbank Accession No. HWGH4G

5 hgegtftsdl skqmeeeavr lfiewlkngg pssgappps

## SEQ ID NO. 9

Exendin 4(1-31)

10

HGEGTFTSDLSKQMEEAVR LFIEWLKNGGPY

## SEQ ID NO. 10

15 Exendin-4(9-39)

DLSKQMEEEAVRLFIEWLKNGGPSSGAPPPS

## 20 SEQ ID NO. 11

Gastrin 34

Xaa-Leu-Gly-Pro-Gln-Gly-Pro-Pro-His-Leu-Val-Ala-Asp-Pro-Ser-Lys-Lys-Gln-  
Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe

25

Xaa = pyroglutamate

## SEQ ID NO. 12

Gastrin 34

30

Xaa-Leu-Gly-Pro-Gln-Gly-Pro-Pro-His-Leu-Val-Ala-Asp-Pro-Ser-Lys-Lys-Gln-  
Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Leu-Asp-Phe

Xaa = pyroglutamate

35

## SEQ ID NO. 13

Gastrin 17

40 Xaa-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe

Xaa = pyroglutamate

## 45 SEQ ID NO. 14

Gastrin 17

Xaa-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Leu-Asp-Phe

50 Xaa = pyroglutamate

SEQ ID NO. 15

Gastrin 71

5 mqrldcvyqli falalaafse aswkprsqqp daplgtganr dlelpwleqq gpashhrrql  
gpqgpphlva dpskkqgpwl eeeeeaygwm dfgrrsaede n

SEQ ID NO. 16

Gastrin 52

10

DLELPWLEQQ GPASHHRRQL GPQGPPHLVA DPSKKQGPWL EEEEEAYGWM DF

SEQ ID NO. 17

15 Gastrin 14

WLEEEEEAYGWM DF

20 SEQ ID NO. 18

Gastrin 6

YGWM DF

25

SEQ ID NO. 19

Gastrin 6

YGWL DF

30

SEQ ID NO. 20

HGEFTFTSDLSKQMEEEEAVRLFIEWLKNGGX

35

SEQ ID NO. 21

HX1X2GTFITSDLSKQMEEEEAVRLFIEWLKNGGPSSGAPPPS

40

SEQ ID NO. 22

HGEFTFTSDLSKQMEEEEAVRLFIEWLKNGGPSSGAPPSKKKKKK

45

SEQ ID NO. 23

Tyr-Gly-Trp-Met-Asp-Phe

50

SEQ ID NO. 24

Tyr-Gly-Trp-Leu-Asp-Phe

55

SEQ ID NO. 25

5 Gly-Ala-Gly-Ala-Gly-Ala-Gly-Ala-Gly-Ala

SEQ ID NO. 26

10 TrpMetAspPhe-NH<sub>2</sub>

SEQ ID NO. 27

15 TrpLeuAspPhe-NH<sub>2</sub>